

# Federico Martin Serra

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

525  
citations

687363

13  
h-index

713466

21  
g-index

51  
all docs

51  
docs citations

51  
times ranked

336  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Efficiency in Electrical Networks with AC and DC Operation Technologies: A Comparative Study at the Distribution Stage. <i>Electronics (Switzerland)</i> , 2020, 9, 1352.	3.1	37
2	IDA-PBC controller design for grid connected Front End Converters under non-ideal grid conditions. <i>Electric Power Systems Research</i> , 2017, 142, 12-19.	3.6	35
3	Interconnection and damping assignment control of a three-phase front end converter. <i>International Journal of Electrical Power and Energy Systems</i> , 2014, 60, 317-324.	5.5	34
4	Economic Dispatch of BESS and Renewable Generators in DC Microgrids Using Voltage-Dependent Load Models. <i>Energies</i> , 2019, 12, 4494.	3.1	33
5	DERs integration in microgrids using VSCs via proportional feedback linearization control: Supercapacitors and distributed generators. <i>Journal of Energy Storage</i> , 2018, 16, 250-258.	8.1	31
6	IDA-PBC control of a DC-AC converter for sinusoidal three-phase voltage generation. <i>International Journal of Electronics</i> , 2017, 104, 93-110.	1.4	29
7	Nonlinear Voltage Control for Three-Phase DC-AC Converters in Hybrid Systems: An Application of the PI-PBC Method. <i>Electronics (Switzerland)</i> , 2020, 9, 847.	3.1	27
8	Energy Management on Battery/Ultracapacitor Hybrid Energy Storage System based on Adjustable Bandwidth Filter and Sliding-mode Control. <i>Journal of Energy Storage</i> , 2020, 30, 101569.	8.1	26
9	Control of a DC-DC Dual Active Bridge Converter in DC Microgrids Applications. <i>IEEE Latin America Transactions</i> , 2021, 19, 1261-1269.	1.6	26
10	Complex-Based Controller for a Three-Phase Inverter With an LCL Filter Connected to Unbalanced Grids. <i>IEEE Transactions on Power Electronics</i> , 2019, 34, 3899-3909.	7.9	25
11	PBC Approach for SMES Devices in Electric Distribution Networks. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2018, 65, 2003-2007.	3.0	22
12	A Second-Order Cone Programming Reformulation of the Economic Dispatch Problem of BESS for Apparent Power Compensation in AC Distribution Networks. <i>Electronics (Switzerland)</i> , 2020, 9, 1677.	3.1	19
13	Comparison of positive sequence detectors for shunt active filter control. , 2010, , .		16
14	Voltage Regulation of an Isolated DC Microgrid with a Constant Power Load: A Passivity-based Control Design. <i>Electronics (Switzerland)</i> , 2021, 10, 2085.	3.1	13
15	Direct Power Compensation in AC Distribution Networks with SCES Systems via PI-PBC Approach. <i>Symmetry</i> , 2020, 12, 666.	2.2	10
16	Passivity Based Control of a Three-Phase Front End Converter. <i>IEEE Latin America Transactions</i> , 2013, 11, 293-299.	1.6	9
17	IDA-PBC controller of a DC-DC boost converter for continuous and discontinuous conduction mode. <i>IEEE Latin America Transactions</i> , 2018, 16, 52-58.	1.6	9
18	Stability Analysis of Single-Phase Low-Voltage AC Microgrids With Constant Power Terminals. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2019, 66, 1212-1216.	3.0	9

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19	An IDA-PBC Design with Integral Action for Output Voltage Regulation in an Interleaved Boost Converter for DC Microgrid Applications. <i>Actuators</i> , 2022, 11, 5.	2.3	9
20	IDA-PBC control of a single-phase battery charger for electric vehicles with unity power factor. , 2016, , .		8
21	Application of the modified IDA-PBC for shunt active power filters control. <i>International Journal of Circuit Theory and Applications</i> , 2016, 44, 1717-1729.	2.0	8
22	Stabilization of MT-HVDC grids via passivity-based control and convex optimization. <i>Electric Power Systems Research</i> , 2021, 196, 107273.	3.6	8
23	Non-linear control of a three-phase front end converter. , 2012, , .		7
24	Implementation and Control of a Magnetic Levitation System. <i>IEEE Latin America Transactions</i> , 2016, 14, 2651-2656.	1.6	7
25	Output Voltage Regulation For dc-dc Buck Converters: a Passivity-Based PI Design. , 2019, , .		7
26	Heuristic Methodology for Planning AC Rural Medium-Voltage Distribution Grids. <i>Energies</i> , 2021, 14, 5141.	3.1	7
27	On the Optimal Selection and Integration of Batteries in DC Grids through a Mixed-Integer Quadratic Convex Formulation. <i>Electronics (Switzerland)</i> , 2021, 10, 2339.	3.1	6
28	Solar Charging Station for Small Electric Vehicles. , 2018, , .		5
29	State of charge monitoring of Li-ion batteries for electric vehicles using GP filtering. <i>Journal of Energy Storage</i> , 2019, 25, 100837.	8.1	4
30	Complex Pole Placement Control for a Three-Phase Voltage Source Converter. , 2020, , .		4
31	Control of a battery charger for electric vehicles with unity power factor. <i>TESEA, Transactions on Energy Systems and Engineering Applications</i> , 2021, 2, 32-44.	0.4	4
32	Sliding mode control of a dc-dc dual active bridge using the generalized space-state averaging description. , 2021, , .		4
33	IDA-PBC control of a three-phase front-end converter. , 2012, , .		3
34	A Multiple-Reference Complex-Based Controller for Power Converters. <i>IEEE Transactions on Power Electronics</i> , 2021, 36, 14466-14477.	7.9	3
35	Predictive Power Control for Electric Vehicle Charging Applications. , 2020, , .		3
36	Control Methods for Single-phase Voltage Supply with VSCs to Feed Nonlinear Loads in Rural Areas. <i>Revista De Ingenieria</i> , 2020, 1, 33-47.	2.5	3

#	ARTICLE	IF	CITATIONS
37	Comparison of First- and Second-Order Sliding-Mode Controllers for a DC-DC Dual Active Bridge. IEEE Access, 2022, 10, 40264-40272.	4.2	3
38	Passivity-based control of a three-phase Front End Converter for stand alone wind generation system. , 2012, , .		2
39	IDA-PBC control of an isolated microgrid used as electric vehicle charging station. , 2017, , .		2
40	Global Optimal Stabilization of MT-HVDC Systems: Inverse Optimal Control Approach. Electronics (Switzerland), 2021, 10, 2819.	3.1	2
41	Experimental implementation of PSDs. , 2012, , .		1
42	IDA - PBC control of shunt active filters for harmonics compensation. , 2012, , .		1
43	Energy management control strategy for stand-alone photovoltaic system. , 2015, , .		1
44	Control of an isolated DC microgrid supplying constant power load. , 2018, , .		1
45	Adaptive Control of a Single-Phase Grid-Forming for Feeding Unknown Resistive Loads. , 2021, , .		1
46	Control de potencia activa y reactiva instant&#x00E1;nea de un GIRB conectado a la Red. , 2014, , .		0
47	Control strategy for an electric vehicle battery charger with unity power factor. , 2015, , .		0
48	Estrategia de control para la gesti3n de la energÃa en un sistema hÃbrido aislado. , 2016, , .		0
49	On the nonlinear control of a single-phase current source converter for sinusoidal voltage generation. Journal of Physics: Conference Series, 2020, 1448, 012011.	0.4	0
50	Hierarchical Control for DC Microgrids Using an Exact Feedback Controller with Integral Action. Computers, 2022, 11, 22.	3.3	0